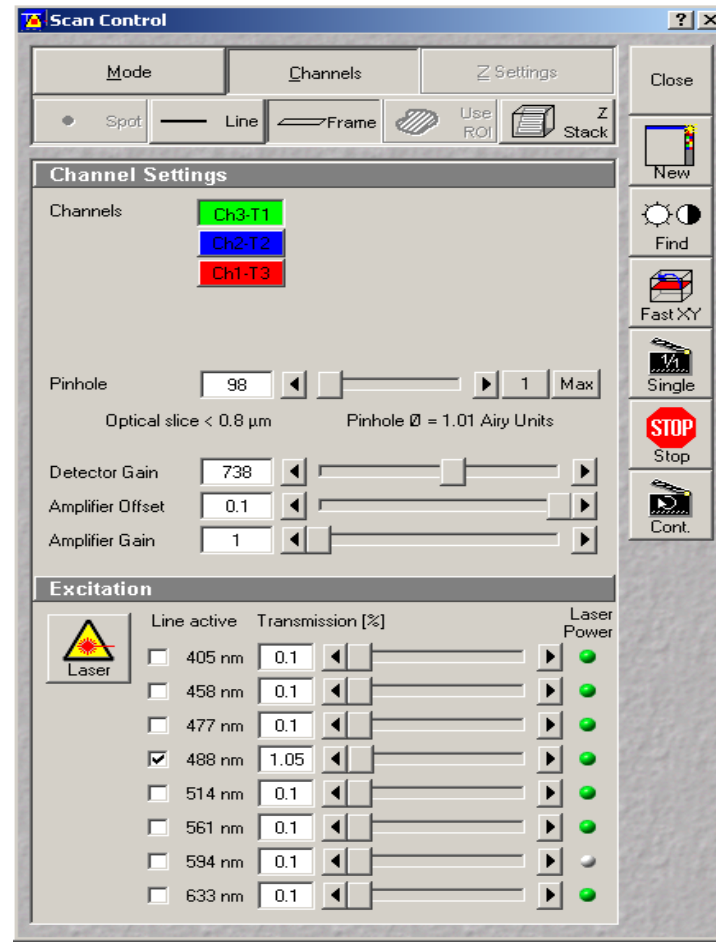
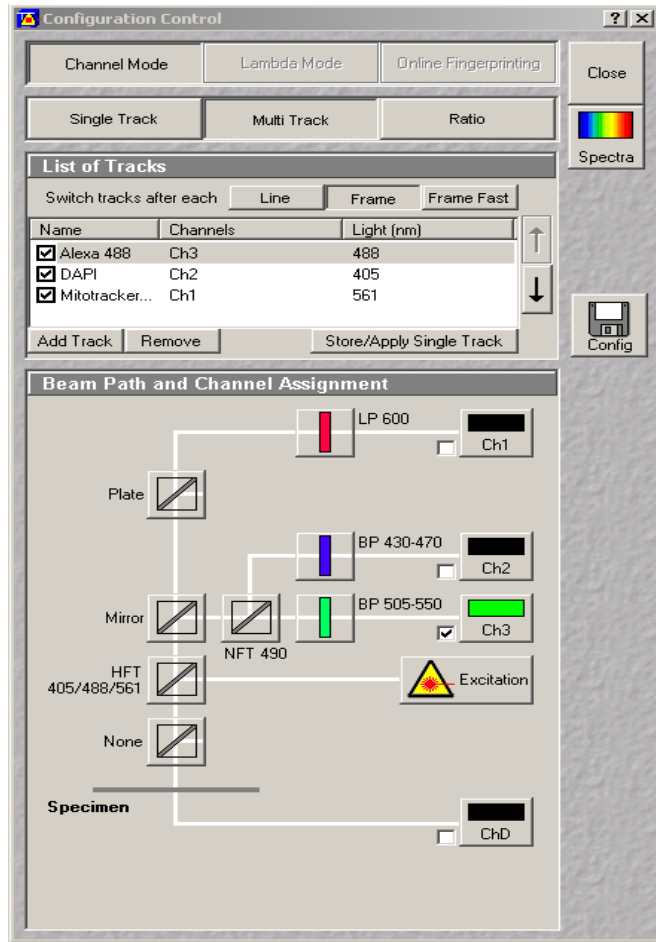


Tiling Z Stacks on the LCI510

Kim Peifley

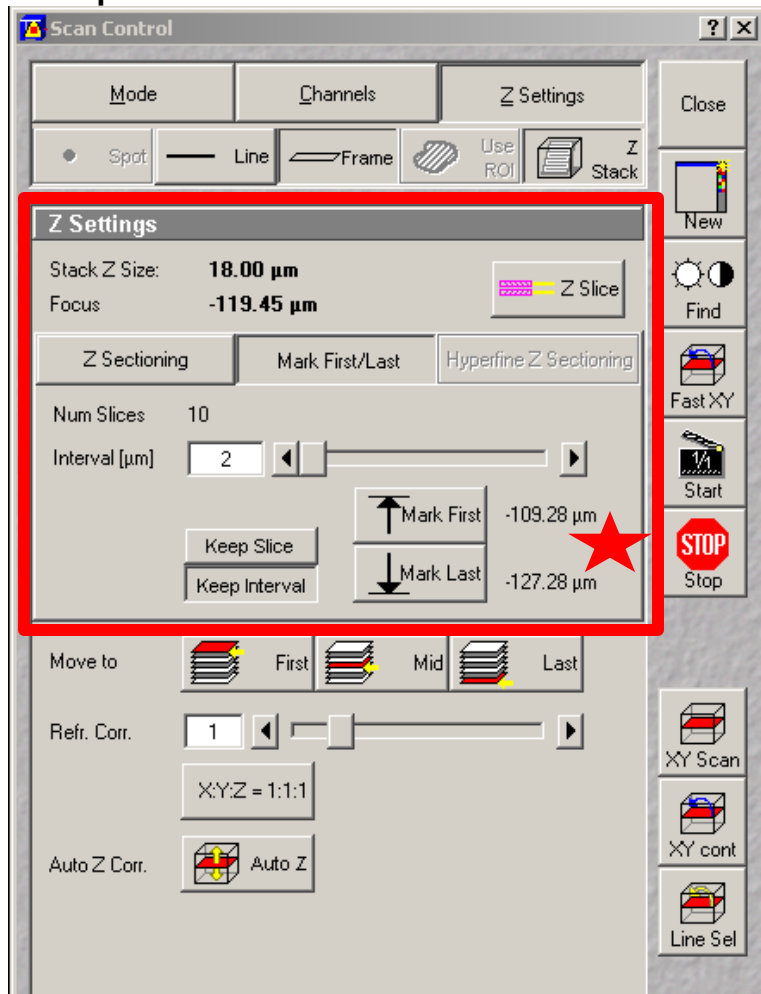
03/23/15

Set up light path, pinhole, detector gain, laser transmission settings as you normally would for any imaging session.

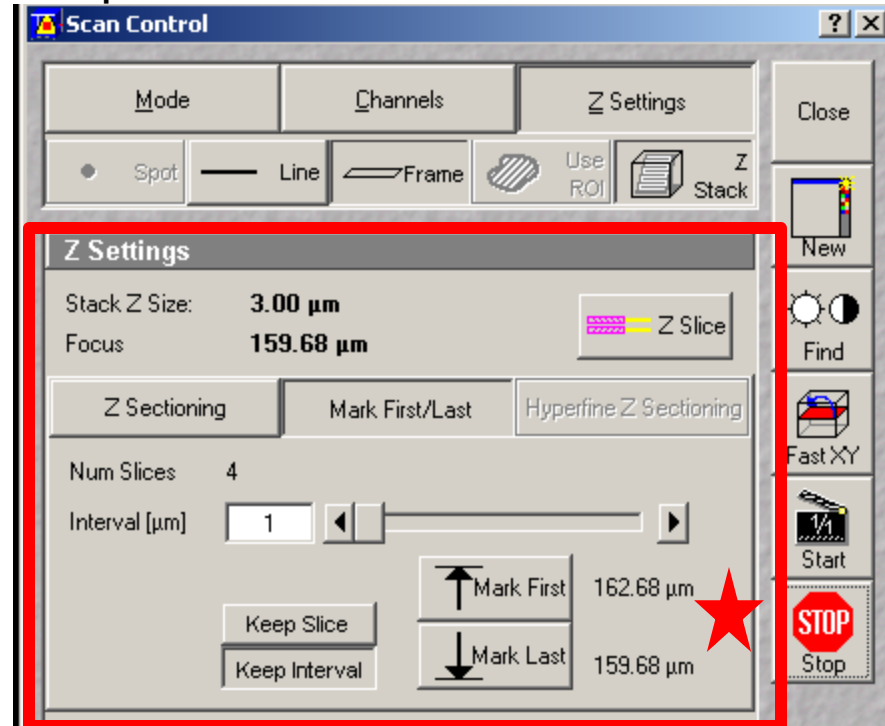


When setting up the Z stack turn the focus knob **away** from you first and use that as “Mark First”. Turn the focus knob **towards** you to set “Mark Last”. Check to make sure that the number next to “Mark First” is greater than the number next to “Mark Last” [★].

Example 1:

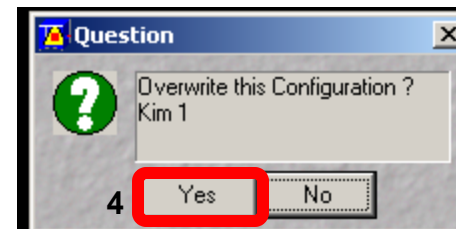
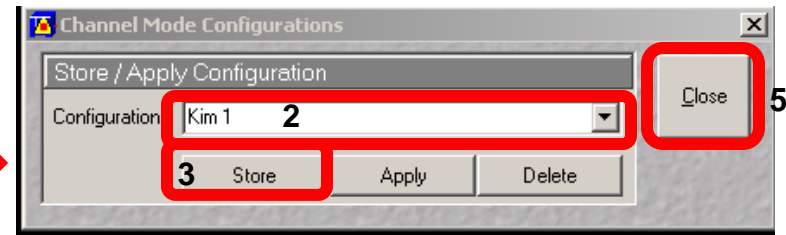
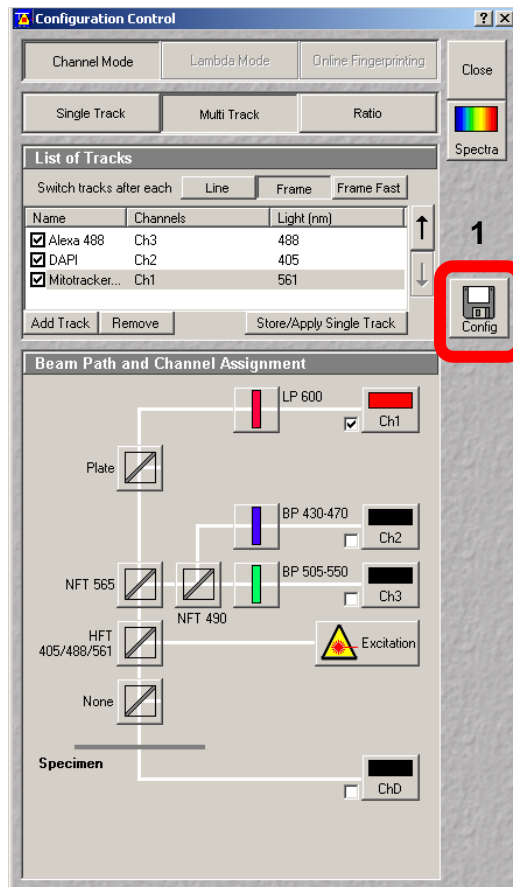


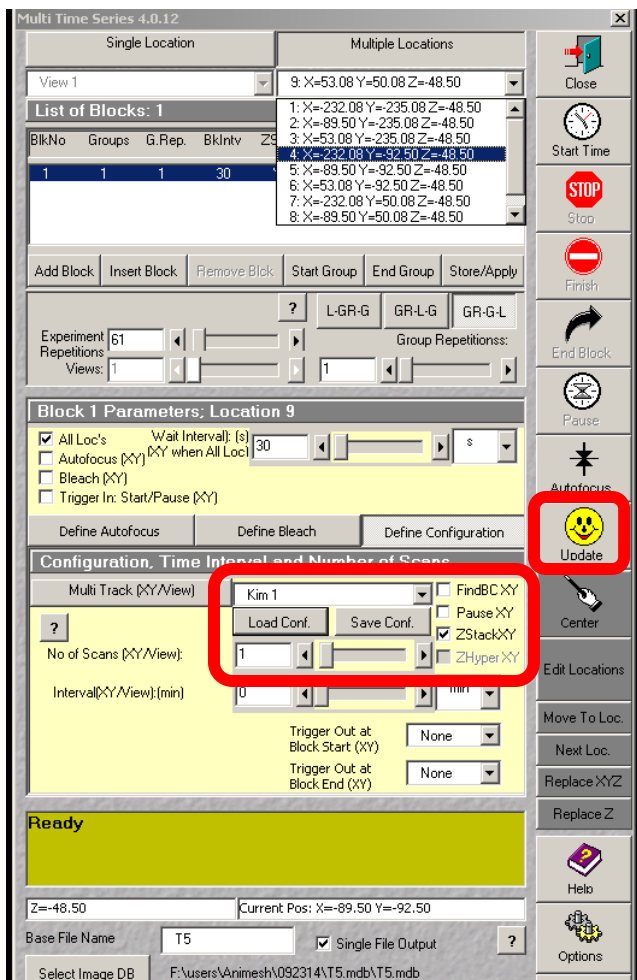
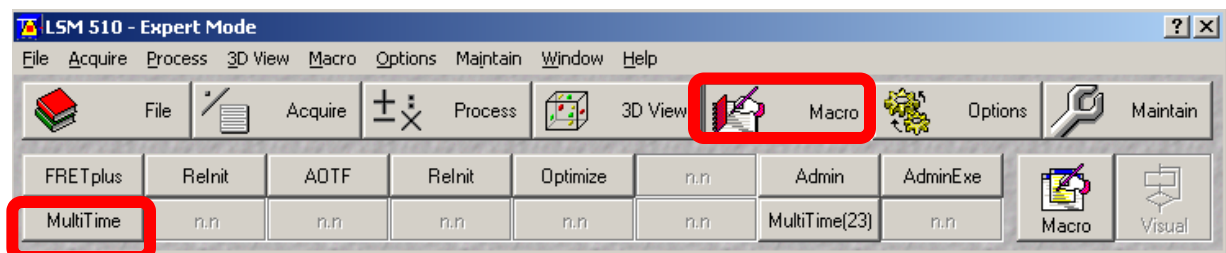
Example 2:



Make sure you have all the channels selected, averaging selected, Z stack selected [if using], zoom [if using] and any other settings are what you want them to be.

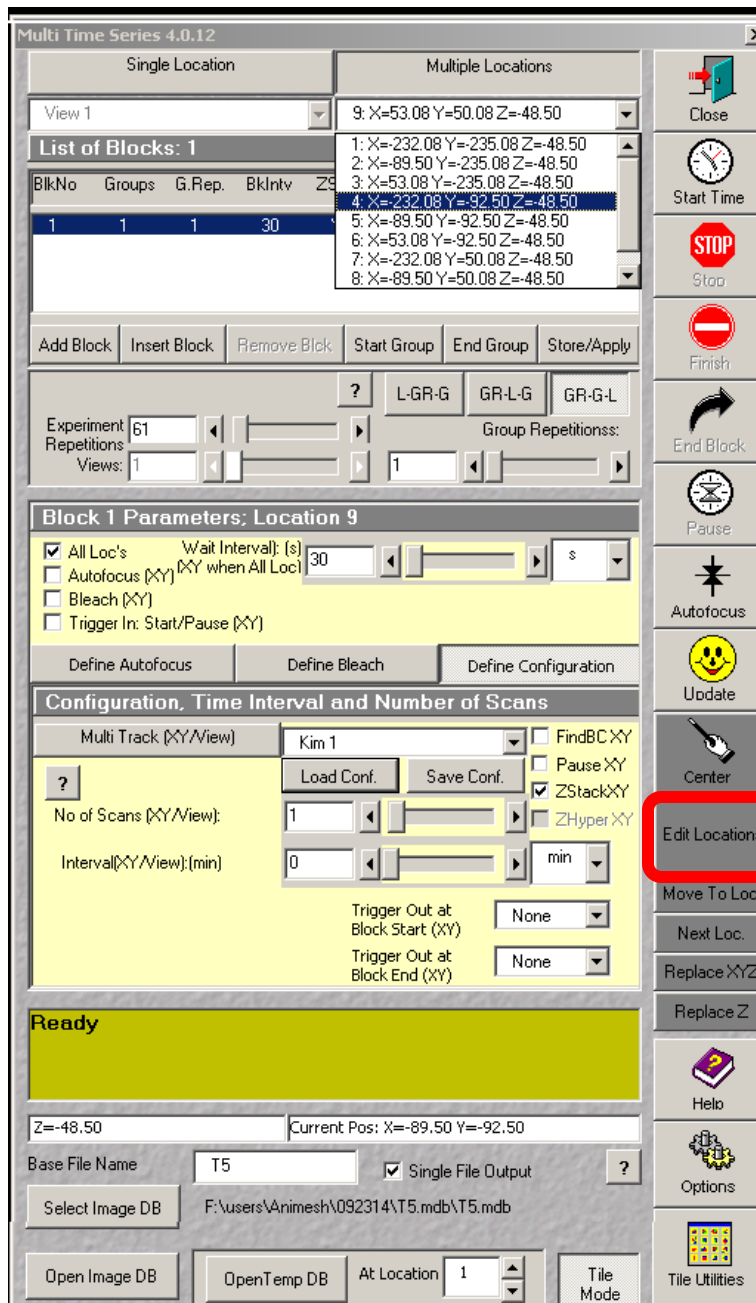
1. Click the Config. Button in the Configuration Control window.
2. This opens up the Channel Mode Configurations window. In Store/Apply Configurations you can A) Look up an old configuration name or B) Create a new configuration name.
3. Click Store.
4. If you are reusing a configuration name after clicking Store another window will pop up asking you if you wish to overwrite the configuration. Click Yes.
5. Click Close in the Channel Mode Configurations Window.



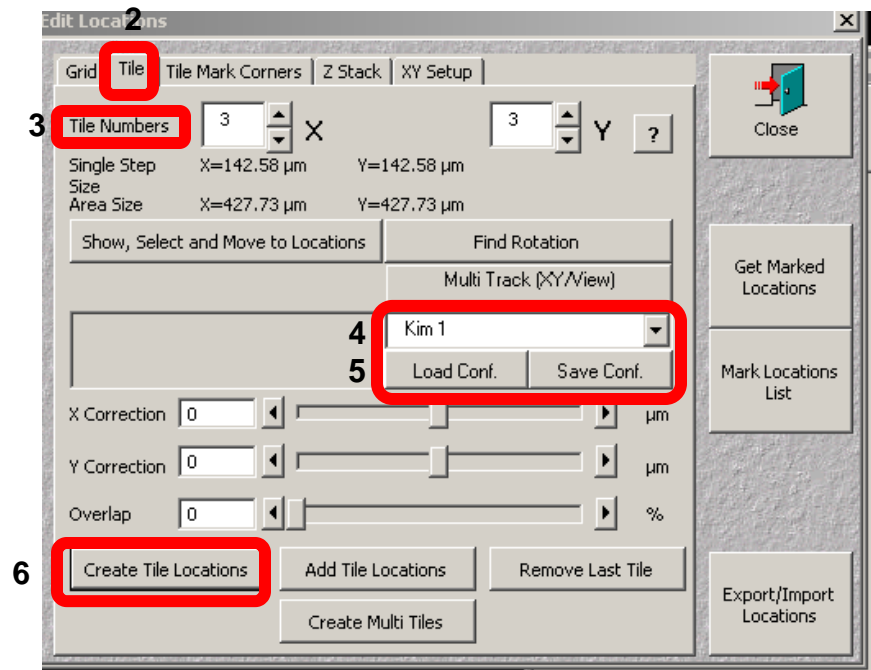


Open MultiTime:

1. Click the Macro Button
2. Click MultiTime Button
3. In the drop down Menu Select Configuration you saved.
4. Click Load Configuration.
5. Make sure to check the box for ZStackXY if you are using Z stacks.
6. Click Update



1. Click Edit Locations to open the Edit Locations window.
2. Go to the Tile Tab.
3. Set the Tile Numbers you want (in this case it is 3 x 3).
4. Select your configuration in the drop down menu.
5. Click Load Configuration.
6. To add new locations click Create Tile Locations.



Multi Time Series 4.0.12

Single Location Multiple Locations

View 1

List of Blocks: 1

BlkNo	Groups	G.Rep.	BlkIntv
1	1	1	30

Add Block Insert Block Remove Block Start Group End Group Store/Apply

Experiment Repetitions: 61 Views: 1

Block 1 Parameters: Location 9

☒ All Loc's Wait Interval: (s) 30

☐ Autofocus (XY) (XY when All Loc)

☐ Bleach (XY)

☐ Trigger In: Start/Pause (XY)

Define Autofocus Define Bleach Define Configuration

Configuration, Time Interval and Number of Scans

Multi Track (XY/View) Kim 1 FindBC XY

No of Scans (XY/View): 1 Load Conf. Save Conf. Pause XY ZStack XY ZHyper XY

Interval (XY/View): (min) 0 min

Trigger Out at Block Start (XY) None

Trigger Out at Block End (XY) None

Ready

Z=-48.50 Current Pos: X=-89.50 Y=-92.50

Base File Name T5 Single File Output

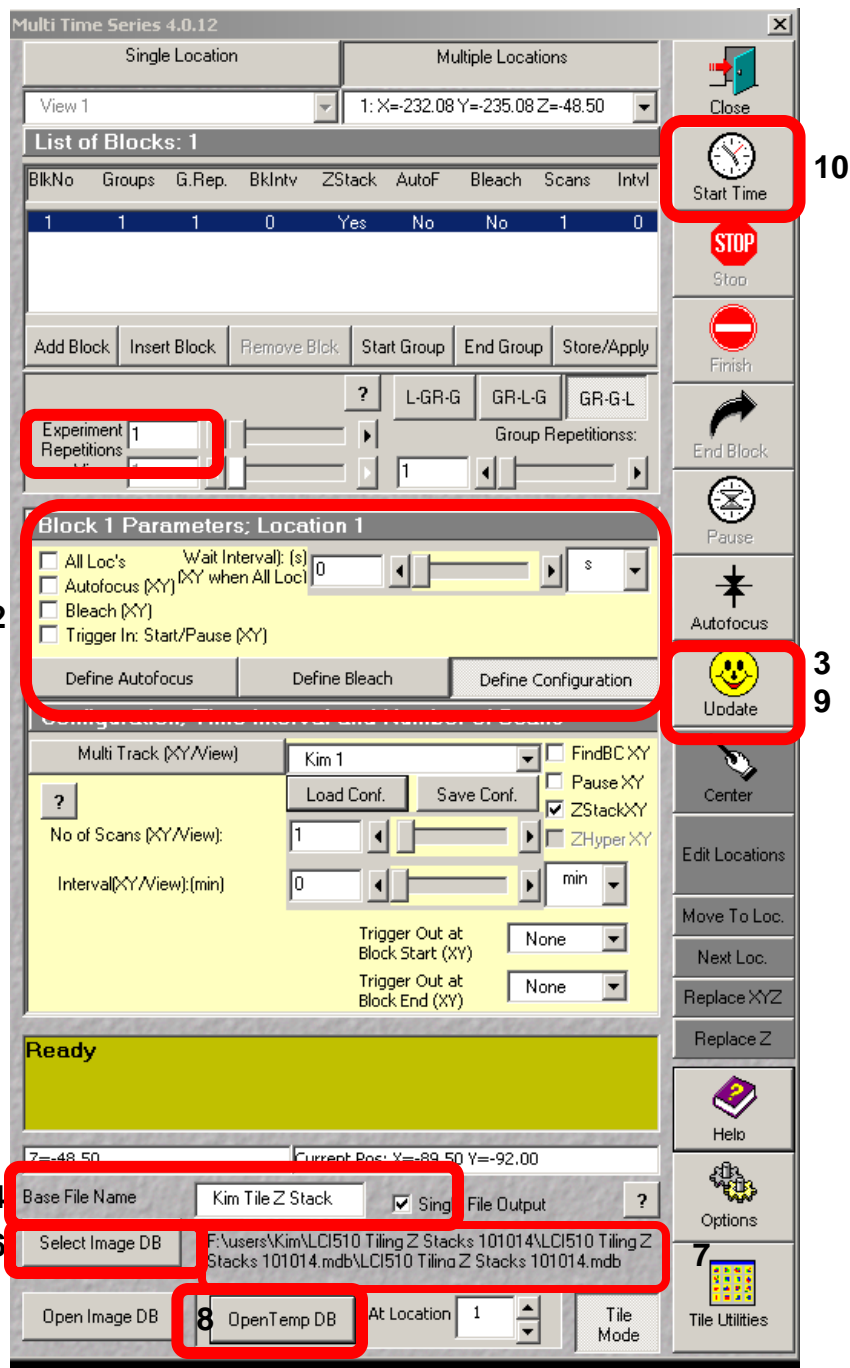
Select Image DB F:\users\Animesh\092314\T5.mdb\T5.mdb

Open Image DB OpenTemp DB At Location 1 Tile Mode

Close Start Time Stop Finish End Block Pause Autofocus Update Center Edit Locations Move To Loc. Next Loc. Replace XYZ Replace Z Hello Options Tile Utilities

You may wish to double check that the locations loaded correctly. You can do this by comparing x,y,z locations of current position with the positions listed under multi-locations.

In the case of a 3x3 grid like in this example the current location should match location 5 in the Multiple Locations list.



1. Enter number of Experiment Repetitions.
2. Make sure All locations is unchecked and Wait interval is zero.
3. Click Update.
4. Enter Base File Name for naming of your image files.
5. Create a database to save the time series.
6. Click Select Image DB to select the DB you created in Step 5.
7. Confirm that the name of the data base matches the one you created.
8. Click Open Temp DB to create a Temporary Database for your data.
9. Click Update again.
10. Click Start Time.

Your final image will look like the one below. This is a 3x3 tile image shown at slice one of 4.

